# SC8768/P
# 7.1Ch PCI Sound Card
# User Manual

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## FCC and CE Radiation Norm
### FCC
This equipment has been tested and found to comply with limits for a Class B digital device pursuant to Part 15 of Federal Communication Commission (FCC) rules.

### CE
This equipment has been tested and found to comply with the limits of the European Council Directive on the approximation of the law of the member states relating to electromagnetic compatibility (89/336/EEC) according to EN 55022 class B & EN55024.

FCC and CE Compliance Statement
These limits are designed to provide reasonable protection against frequency interface in residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed or used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connect to

## CAUTION!
The Federal Communication Commission warns the user that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

# 1.Overview

## Features

- Newest single chip 8 channel PCI sound audio solution
- 32bit PCI Bus Master, PCI 2.1 / PCI 2.2 compliant
- Supports multi-speaker output to 2 / 4 / 5.1 / 7.1 speakers
- Comply with Microsoft® PC99 specification
- Fully Sound Blaster, Sound Blaster Pro compatible and Direct Sound compatible
- Supports 24-bit/96K playback and 16-bit/48K recording
- Support SPDIF Out 44.1K/48K/96KHz sample rate and 16/24-bit resolution)
- Supports the latest Dolby® Digital EX and DTS® ES 6.1/7.1CH DVD soundtrack playback
- DirectSound™ 3D HW acceleration
- C-Media Xear 3D™ 7.1 Virtual Speaker SHIFTER technology
- Sensaura® CRL3D HRTF 3D positional sound enhancement with multi-drive 7.1, EnvironmentFX, ZoomFX, MacroFX, etc.
- Supports most industrial standards of PC 3D sound for gaming, include DirectSound™3D, EAX™ 1.0&2.0 and A3D™ 1.0
- Unique Karaoke functionality: Mic Echo, Key-shifting, Vocal Cancellation
- Interesting Magic Voice™ feature to change users' voice tone for IP phone, online games, and messenger applications
- Support 10-band Equalizer with 12 preset modes; 27 global environment effects
- Support 7.1 CH digital audio playback for WinXP, 2K, ME, 98SE (Microsoft DirectX V9.x above is required)
- Supports Dolby® Digital Live real-time AC-3 encoder ( SC8768P Only )

**Connector**：
- **Internal**    **:** CD Audio In , AUX In
- **External**    **:** Front-Out / Rear-Out / Center & Woofer / ALT CEN
                 Line-In / Mic-In / SPDIF-In / SPDIF-Out

## System Requirements

- IBM compatible PC with 32-bit PCI slot.
- Microsoft® Windows® 98SE/ Me/ 2000/ XP
- Intel® Pentium® II 266MHz CPU above ( PIII 800 Recommended)
- 64 MB system memory (Minimum)
- 100 MB available HDD space
- CD-ROM drive (or DVD-ROM drive Recommended)

## Software Bundle

- Multi-channel Speaker Tester
- Media Rack (CD / Midi / Wav / MP3 / WMA / VCD and Karaoke Player )

## Package

- Plug and Play PCI sound card
- User manual
- "Installation Software" CD-ROM

## Latest Information

**Please read the "**README.TXT**" file on** *Installation Software* **CD-ROM**

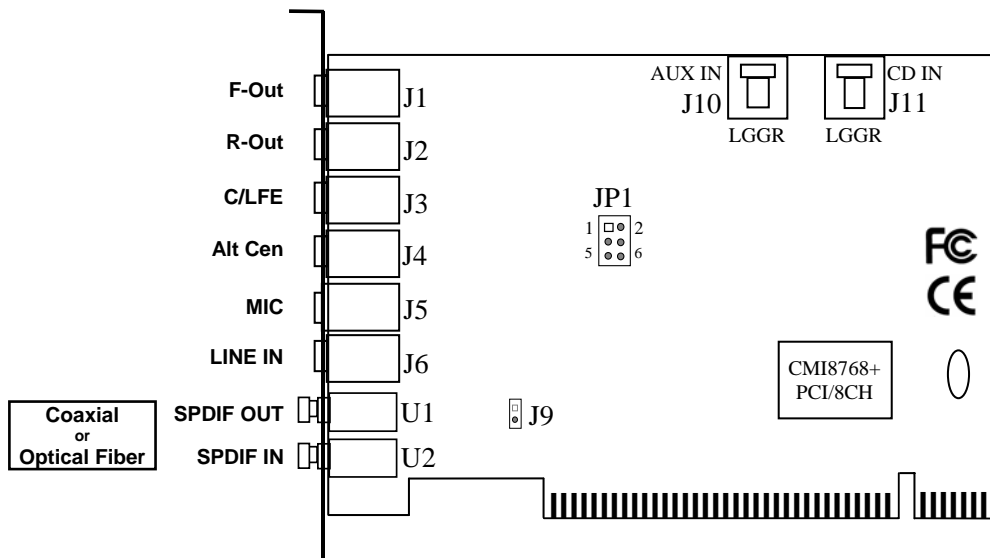# 2. Installing the Sound Card

## A. *Hardware Installation*

Before you start, make sure that Windows® 98SE/ ME / 2000 / XP has been installed in your system and running properly. Please follow the following steps carefully while installing your sound card.

1. Turn off your computer and disconnect all power cords.
2. Remove the case from your computer. Refer to your PC's user manual for more details.
3. Plug the Sound Card into any free 32-bit expansion PCI slot of the computer.
4. Connect the audio cable to your CD-ROM or DVD-ROM drive.
5. Put the computer cover case on and reconnect the power cords.

### Connecting Audio Devices

You can connect various types of audio equipment, such as speakers, headphones, CD player and so on, to the sound card through its back panel jacks. The following diagram shows the connectors on the back panel.

**Layout of the SC8768/P PCI Sound Card**



| | |
|---|---|
| **F-Out** | This connector provides Front sound source output, you can connect one set of active speaker or headphone. |
| **R-Out** | This connector provides Rear sound source output, you can connect one set of active speaker or headphone. |
| **C/LFE** | This connector provides Center & Subwoofer (LFE) sound source output, you can connect one set of active speaker. |
| **ALT CEN** | This connector provides Back-Surround sound source output. |
| **MIC** | This connector provides Microphone-in function. |
| **LINE IN** | This connector provides Line-in function. |
| **S/PDIF In** | This connector provides S/PDIF digital audio input with optical/coaxial cable. Input for MD Player, Portable CD Player, Home Audio System |
| **S/PDIF Out** | This connector provides S/PDIF digital audio output with optical/coaxial cable. Output for MD Player, AC-3 Decoder, Home Audio System. |

## *B. Drivers Setup*

### Auto Run

Auto Run for Windows® 98SE / Me /2000 / XP
1.   Insert the Multimedia Software CD-ROM into your CD-ROM drive.
2.   Follow the on-screen instructions to finish the installation.

If Auto Run can't be used with your computer, please refer to each Windows as follows,

### Installing the Sound Card Driver under Windows® 98SE

1.   After hardware installation has been finished, power up your computer and wait for Windows® 98SE to boot up.
2.   The message box will show "Add New Hardware Wizard" and "This Wizard searches for new drivers for PCI Multimedia Audio Device". Click "**Cancel**".
3.   Insert the *Multimedia Software* CD-ROM into your CD-ROM drive or DVD-ROM drive.
4.   Click "**Start**" at Windows bottom left corner.
5.   Select "**Run**".
6.   Key in the drive and path for driver installation program; for example, "**D:\ SETUP.EXE**". (If your CD-ROM drive or DVD-ROM drive is D)
7.   Click "**OK**" to start the driver installation procedure
8.   When the screen will show "System Files Requirement" message box, Please Key in the path for Windows 98SE CD, Click "**Continue**" and follow the on-screen instructions to finish the installation.
9.   When the driver has been installed, please restart your computer.

### Installing the Sound Card Driver under Windows® Me/2000/XP

We recommend you to install Microsoft® Windows® Me/2000/XP before you install this PCI sound card, and ensure you didn't install any other sound card device drivers in your current system.

1.   After hardware installation has been finished, power up your computer and wait for Windows® Me/2000 /XP to boot up.
2.   The message box will show "Found New Hardware Wizard" Click "**Cancel**".
3.   Insert the *Multimedia Software* into your CD-ROM drive or DVD-ROM drive.
4.   Click "**Start**" at Windows bottom left corner.
5.   Select "**Run**".
6.   Key in the drive and path for driver installation program; for example, "**D:\ SETUP.EXE**". (If Drive D is your CD-ROM drive or DVD-ROM drive).
7.   Click "**OK**" to start the driver installation procedure, and follow the on-screen instructions to finish the installation.
8.   When the driver has been installed, please restart your computer.

### Uninstalling the Sound card Driver for Windows® 98SE/Me/2000/XP

1.   Click "**Start**".
2.   Select "**Settings**".
3.   Select "**Control Panel**" and click "**Add/Remove Programs**".
4.   Select "**C-Media PCI Audio** " and than click "**Change/Remove or Add/Remove**".
5.   Follow the on-screen instructions to finish the uninstall , than reboot your system.

# Appendix A. Hardware Information

**JP1 : Center and Subwoofer setting selection**

| JP1 | Left/Right | Mode |
|---|---|---|
| (1 , 3)   (2 , 4) | C/LFE | Normal |
| (3 , 5)   (4 , 6) | LFE/C | Inverter |

# Appendix B. Connection and Speaker Setup



Front Speakers

Side Surround Speakers

Center/Subwoofer Speakers

Back Surround Speakers

MIC Phone

CD Player / Radio

Decoder    MD

AV Player

Front Out / Headphone

Side Surround Out

Center / Subwoofer

Back Surround Out

MIC IN

LINE IN

S/PDIF OUT

S/PDIF IN

Sound Card Bracket